

REQUEST FOR PROPOSAL – US6 BRIDGES DESIGN BUILD PROJECT
BR 0061-083, SUB ACCOUNT 18838 (CN)
BOOK 2 – TECHNICAL REQUIREMENTS
SECTION 12 – DRAINAGE

and the local city or county floodplain administrator. The Contractor shall comply with local floodplain development permits and other National Flood Insurance Program requirements. As required by FEMA or local floodplain administrators, the Contractor shall develop hydraulic models of the waterways and crossing structures to demonstrate hydraulic performance of new structures and existing structures. The Contractor shall apply for and obtain Conditional Letters of Map Revision (CLOMR) and Letters of Map Revision (LOMR) as required. The Contractor shall be responsible for all FEMA and other Agency fees. Obtain floodplain development permits as required by the Local Agencies.

CLOMR and LOMR submittals are required for the following locations:

1. South Platte River
- 4.2. *Weir Gulch (* If the Weir Gulch Box culvert is replaced a CLOMR/LOMR will be needed if the effective Base Flood Elevations (BFEs) are changed. The design for the replacement culvert shall demonstrate what the impacts to the BFEs are.

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12.2.6 Area Specific Drainage Requirements and/or Information

12.2.6.1 Platte River

The Contractor shall remove and replace existing US 6 bridge structure crossing the Platte River. *Major Drainageway Planning, South Platte River, Chatfield Dam to Baseline Road, Phase B*, prepared by Wright Water Engineers, dated November 1985 shows the South Platte River being lowered in the future. Design of the bridge over the river shall accommodate the future river lowering.

The effective model from the LOMR for the Zuni and Sun Valley Reach Channel Improvements along the South Platte River shall be used for the hydraulic and floodplain analysis. Although LOMR information is included in the reference documents, the contractor shall contact UDFCD to obtain the effective LOMR model and related documents to ensure that he has the current information.

Piers for the bridge shall not be located in the center of the South Platte River channel.

The existing trail under the bridge shall be reconstructed with an elevation above the 10 year flood elevation in the river or a minimum 10-foot vertical clearance.

Bridge construction shall be coordinated with UDFCD project where the UDFCD project work falls within this project's limits.

12.2.6.2 Weir Gulch Culvert (Barnum Lake Outfall)

The existing double box culvert under US 6 shall be replaced **based on the Contractors findings as directed in Section 15 - Structures**. Construction activities shall be confined to the US 6 right-of-way. Measures shall be taken to prevent draining Barnum Lake. The design detention water surface elevations and design detention discharges from Barnum Lake shall be maintained.

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Deliverable	CDOT review, Acceptance or Approval	Schedule
Final Water Quality Report	Acceptance	Prior to issuance of Released for Construction Documents
Final Bridge Hydraulics Report	Acceptance	Prior to issuance of Released for Construction Documents
FEMA Approved CLOMR	Acceptance	Prior to issuance of Released for Construction Documents
FEMA Approved LOMR	Acceptance	After project is constructed (will need design services after construction)
Sampling Schedule for Pipe Selection	rReview	Prior to NTP2
Groundwater Elevations at Pond Locations	rReview	Prior to NTP2
Weir Gulch Box Culvert Replacement Design and phasing plan	Acceptance	Prior to issuance of Released for Construction Documents
SWMP Site Map	Acceptance	Prior to RFC.
Spill Prevention Control and Countermeasure Plan	Acceptance	21 Days prior to the NTP2
SWMP Plan(s)	Acceptance	Prior to RFC
EDB Certification	Acceptance	Prior to final project acceptance
Drainage Plans, Profiles, and Details	Acceptance	Prior to RFC